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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,008	03/26/2004	Gene Kelly Norris	A01506	8986
21898 7590 02/16/2007 ROHM AND HAAS COMPANY			EXAMINER	
PATENT DEPA	ARTMENT		LISTVOYB, GREGORY	
100 INDEPENDENCE MALL WEST PHILADELPHIA, PA 19106-2399			ART UNIT	PAPER NUMBER
	·		1711	
				
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	02/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/811,008	NORRIS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Gregory Listvoyb	1711				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tirr ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E						
Disposition of Claims						
4) Claim(s) <u>1-10</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	•					
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119	· ·					
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
1.☐ Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicati	on No				
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage				
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/8/2006. B/16/2009 UL	6) Other:					
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Response to Arguments

Applicant's arguments with respect to claims 1-10 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hanejko (US patent 6395687) herein Hanejko in view of Kublak et al (US Patent 3597378), herein Kublak.

Hanejko teaches a an iron-based powder composition comprising reaction product of:

linear C8-C10 linear dicarboxylic acid (Sebacic Acid), C12-C20 monocarboxylic acid (Stearic Acid) and C2-C6 alkylene diamines (Ethylene Diamine) (Column 3, line 45).

Hanejko does not disclose 30-45% of dicarboxylic acid, 40-60% of monocarboxylic acid and 12-20% of diamine. It leads to low molecular weight of wax product, having melting point of 150C. In order to increase melting point of the wax, it is necessary to increase molecular weight of wax, combining dicarboxylic acid and diamine in stoichiometric ratio.

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Kublak teaches a wax, comprising a reaction product of the following components:

A . linear dicarboxylic acid (preferably, Sebacic (C6),

B. monocarboxylic acid (preferably, Stearic (C18))

C. diamines (preferably, Ethylenediamine) (Method A, Column 2)

Molar ratio of B to A is within the range of 1: 1 to 6:1 and the number of acidic groups in A and B equal to number of amino groups in C.

Therefore, a ratio of total number of equivalents of carboxylic acid to diamine is equal to 1.00

In Table 1, Example 9, Kublak disclose a wax with melting point of 230-240C, which is a product of reaction of 30% Sebacic acid, 56% of Stearic acid and 14% of Ethylenediamine.

In the case there Sebacic and Stearic acid added in the ratio one to one, the amount moles of Diamine would be equal to 1.5. In weight percent The amount of the above components, expressed in weight percent will be 35 % of Sebacic acid, 49% Stearic acid and 16% of Ethylene Diamine.

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Kublak teaches that melting point range of the above waxes is 300-600F (150-315C), which matches the corresponding values in the Specification of the Application, confirming similarity of Kublak's wax compositions and ones in the Application.

Kublak discloses a wax comprising saturated monocarboxylic acid, dicarboxylic acid and diamines (see discussion above).

Kublak teaches that Ethylene diamine is added to Sebacic acid (while stirring) with following addition of Stearic acid (Method A, Column 2).

Kublak fails to teach sub-surface addition of diamines. However, since the finished products of the Reference and the Application are produced from the same reactants and substantially identical, MPEP 2113 (Product-by-Process Claims) is applicable.

The Kublak's and the Applicant's waxes, which produced from the same diamines, diacid and monoacid, have Molecular Weight, controlled by Melting Point. Since the ranges of Melting Points in both cases overlap, the products are identical.

In order to increase melting point of wax in metal powder composition it would be obvious to use Kublak's wax in Hanejko's composition.

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory Listvoyb whose telephone number is (571) 272-6105. The examiner can normally be reached on 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gregory Listvoyb Examiner Art Unit 1711

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IRINA ZEMEL PRIMARY EXAMINER